

IN THE CLAIMS:

1. Cancelled.

2. (Currently Amended) A lithographic printing original plate having a photosensitive layer on a substrate directly or on another layer provided thereon, said photosensitive layer being comprised of a crosslinked polymer having ink repellency, wherein the photosensitive layer is a water-insoluble photosensitive hydrophilic resin layer obtained by crosslinking a photosensitive composition consisting essentially of a hydrophilic polymer, a crosslinking agent and a light absorbing compound, wherein the photosensitive hydrophilic resin layer has a phase-separation structure comprised of a hydrophilic polymer phase comprised of a crosslinked hydrophilic polymer and a hydrophobic polymer phase comprised of a hydrophobic polymer, and wherein the photosensitive layer is changed from being ink-repellant to ink-receptive by irradiation with light whereby the plate is without need of developing the unexposed areas of the photosensitive layer with a fountain solution during printing.

3. (Previously Presented) A lithographic printing original plate having a photosensitive layer on a substrate directly or on another layer provided thereon, said photosensitive layer being comprised of a crosslinked polymer having ink repellency, wherein the photosensitive layer is a water-insoluble photosensitive hydrophilic resin layer obtained

by crosslinking a photosensitive composition consisting essentially of a hydrophilic polymer, a crosslinking agent, a light absorbing compound and a hydrophobic polymer, and wherein the photosensitive layer is locally foamed by irradiation with a light and changed from ink-repellant to ink-receptive.

4. Cancelled.

5. (Original) The lithographic printing original plate as claimed in claim 3, wherein the hydrophilic polymer is a polymer containing as a main component one or more monomers selected from unsubstituted or substituted (meth)acrylamide, N-vinylformamide and N-vinylacetamide, the hydrophobic polymer is an aqueous dispersion polymer having an average particle diameter of 0.005 to 0.5 μm and a film forming temperature of not higher than 50°C, and the photosensitive hydrophilic resin layer has a phase separation structure consisting of a hydrophilic polymer phase and a hydrophobic polymer phase.

6-14. Cancelled.

15. (Previously Presented) The lithographic printing original plate as claimed in claim 2, wherein the photosensitive layer is locally foamed by irradiation with a light and changed from ink-repellant to ink-receptive.

16. (Cancelled)

17. (Previously Presented) A process for producing a lithographic printing plate, comprising irradiating the lithographic printing original plate of claim 5 with a light having a wavelength of 750 to 1100 nm.

18. (Previously Presented) A process for producing a lithographic printing plate, comprising irradiating the lithographic printing original plate of claim 15 with a light having a wavelength of 750 to 1100 nm.

19-24. (Cancelled)

25. (Previously Presented) The lithographic printing original plate as claimed in claim 2, wherein the photosensitive layer is locally heat melted by irradiation with a light and changed from ink-repellent to ink-receptive.

26. (Previously Presented) The lithographic printing original plate as claimed in claim 5, wherein the photosensitive layer is locally heat melted by irradiation with a light and changed from ink-repellent to ink-receptive.

27-28. (Cancelled)

29. (Previously Presented) The lithographic printing original plate as claimed in claim 2, wherein the hydrophilic polymer is a polymer having an amide group.

30. (Previously Presented) The lithographic printing original plate as claimed in claim 2, wherein the hydrophilic polymer comprises one or more monomers selected from the group consisting of unsubstituted or substituted (meth)acrylamide, N-vinylformamide and N-vinylacetamide.

31-32. (Cancelled)

33. (Previously Presented) The lithographic printing original plate as claimed in claim 3, wherein the hydrophobic polymer has an average particle diameter of 0.005 to 0.5 μm .

34. (Previously Presented) The lithographic printing original plate as claimed in claim 3, wherein the hydrophobic polymer is an aqueous dispersion polymer having a film forming temperature of not higher than 50°C.

35-36. (Cancelled)

37. (Previously Presented) A lithographic printing original plate having a photosensitive layer on a substrate directly or on another layer provided thereon, said photosensitive layer being comprised of a crosslinked polymer having ink repellency, wherein the photosensitive layer is a water-insoluble photosensitive hydrophilic resin layer obtained by crosslinking a photosensitive composition consisting essentially of a hydrophilic polymer, a crosslinking agent, a light absorbing compound and a hydrophobic polymer, and wherein the photosensitive layer is locally heat melted by irradiation with a light and changed from ink-repellant to ink-receptive.

38. (Cancelled)

39. (Previously Presented) The lithographic printing original plate as claimed in claim 37, wherein the hydrophobic polymer has an average particle diameter of 0.005 to 0.5 μm .

40. (Previously Presented) The lithographic printing original plate as claimed in claim 37, wherein the hydrophobic polymer is an aqueous dispersion polymer having a film forming temperature of not higher than 50°C.

41-42. (Cancelled)